	ID: 051803782	CAS Number: 51803-78-2
	<div>Enlarge Structure</div> <div>Use Structure For Query</div> <div>Use Structure for Similarity</div>	Formula: C13-H12-N2-O5-S

**Names and Synonyms****Name of Substance**

- Nimesulide
- Nimesulide [BAN:INN]
- R 805

**Synonyms**

- 4-Nitro-2-phenoxy-methanesulfonanilide
- Aulin
- BRN 2421175
- EINECS 257-431-4
- Flogovital
- Mesulid
- N-(4-Nitro-2-phenoxyphenyl)methanesulfonamide
- Nimed
- Nimesulida [INN-Spanish]
- Nimesulide
- Nimesulidum [INN-Latin]
- R-805
- Sulidene



**Systematic Name**

- 4'-Nitro-2'-phenoxy-methanesulfonanilide
- Methanesulfonamide, N-(4-nitro-2-phenoxyphenyl)-(9CI)
- Methanesulfonanilide, 4'-nitro-2'-phenoxy-
- Nimesulide

**Classification Codes Classification Code**

- Anti-inflammatory agents, non-steroidal
- Cyclooxygenase inhibitors

	<ul style="list-style-type: none"><li>• Drug / Therapeutic Agent</li><li>• Human Data</li></ul>
<b>Formulas</b>	<b><u>Molecular Formula</u></b>
	<ul style="list-style-type: none"><li>• C13-H12-N2-O5-S</li></ul>
<b>Locators</b>	<b><u>File Locator</u></b>
	<ul style="list-style-type: none"><li>• AIDSLINE</li><li>• CANCERLIT</li><li>• CCRIS</li><li>• DART/ETIC</li><li>• EINECS</li><li>• MEDLINE</li><li>• MESH</li><li>• RTECS</li><li>• TOXLINE</li><li>• TOXLINE Special</li></ul>
<b>Registry Numbers</b>	<b><u>CAS Registry Number</u></b>
	<ul style="list-style-type: none"><li>• 51803-78-2</li></ul>

	<b>National Library of Medicine</b> <b>Specialized Information Services</b>	<a href="#">Ab</a> <a href="#">ut</a> • <a href="#">Contact</a> • <a href="#">Search</a>	
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 For chemicals, add synonyms and CAS numbers to search:   ☐ Yes   ☒ No

◀ Item 13 of 110 ▶

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**Formulation and evaluation of transdermal preparations of nimesulide gel**
**Authors:**
 Ilango R  
 Kavimani S  
 Kumar KS  
 Deepa KR  
 Jaykar B

**Author Address:** Dept. of Pharmaceutics, Periyar Coll. of Pharm. Sci. for Girls, Trichy-620 021 (T.N.), India

**Source:** East. Pharm.; VOL 41 ISS Nov 1998, P123-125, (REF 8)
**Abstract:**

IPA COPYRIGHT: ASHP The effect of polymer concentration on in vitro nimesulide release from carbomer 940 (Carbopol 940) and hydroxypropyl methylcellulose (HPMC) gels and the effect of different concentrations of permeation enhancers such as polysorbate 80 (Tween 80) and sodium lauryl sulfate on drug release were studied; pharmacodynamic studies were also conducted in rats with carrageenan-induced paw edema. Nimesulide gel based on HPMC showed better effects compared with the carbomer gel. Both permeation enhancers significantly improved diffusion patterns. Products were physically stable, but the gel based on HPMC showed slight instability.

**Keywords:**
 Nimesulide  
 transdermal  
 gels  
 Hydroxypropyl methylcellulose  
 Carbomer 940  
 Polysorbate 80  
 absorption enhancers  
 Sodium lauryl sulfate  
 Anti-inflammatory agents  
 nimesulide(Anti-inflammatory agents)  
 Patches transdermal  
 Polymers  
 Diffusion  
 Absorption  
 Release  
 Concentration

Stability  
Carbopol 934  
Carbomer 934  
Tween 80

**CAS Registry Numbers:**

51803-78-2  
51803-78-2  
9004-65-3  
9003-01-4  
9005-65-6  
151-21-3

**Language:** English

**International Standard Serial Number:** 0012-8872

**Coden:**

EAPHA

**Entry Month:** February, 2000

**Classification Code:** 8/10

**Year of Publication:** 1998

**Secondary Source ID:** IPA/00/1186081